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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/510,349	10/06/2004		Naoki Ayai	040256-0134	7524	
22428	7590	07/07/2006		EXAMINER		
FOLEY AN SUITE 500	ND LARI	ONER LLP	ARBES, CARL J			
3000 K STR	EET NW		ART UNIT	PAPER NUMBER		
WASHINGT	ron, DC	20007		3729	· · · · ·	

DATE MAILED: 07/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/510,349	AYAI, NAOKI					
Office Action Summary	Examiner	Art Unit					
	C. J. Arbes	3729					
- The MAILING DATE of this communication appears on the cover sheet with the correspondence address - Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 06 Oc	ctober 200 <u>4</u> .						
·—	·						
3) Since this application is in condition for allowan	Since this application is in condition for allowance except for formal matters, prosecution as to the merits i						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.					
Disposition of Claims							
4) Claim(s) 1-11 is/are pending in the application.							
,	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.	· · · · · · · · · · · · · · · · · · ·						
6)⊠ Claim(s) <u>1-3,5,6,9 and 10</u> is/are rejected.							
7) Claim(s) <u>4</u> , <u>7</u> , <u>8</u> , <u>and 11</u> is/are objected to.							
	8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>06 October 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
THE Dath of declaration is objected to by the Examiner. Note the attached Office Action of John F10-192.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).					
a)⊠ All b)□ Some * c)□ None of:							
<ol> <li>Certified copies of the priority documents</li> </ol>	have been received.	•					
<ol><li>Certified copies of the priority documents</li></ol>	·	<del>-</del>					
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Notice of Draftsperson's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date  Notice of Informal Patent Application (PTO-152)							
Paper No(s)/Mail Date <u>herein</u> .	6) Other:		_'				
S. Petent and Trademark Office							

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3, 5, 6, 9 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takeshita et al. (Pat No. 5,145,835) hereinafter Takeshita et al Takeshita et al teach a process for fabrication of superconducting ceramic materials by HIP treatment. A metal casting containing a starting powder material having a composition for forming an oxide superconductor is prepared. The starting material is calcined in the casing at about 850-950 degrees Celsius. The casing is subjected to a HIP treatment, to a hot deforming treatment an then to a cold deforming treatment. According to the evidence (Cf bottom of Col 4 in Takeshita et al) the casing can be sealed in a vacuum. The raw materials can be calcined or heat treated at a temperature range between 300-950 degrees Celsius (Cf. Col 4). It would have been obvious at the time of this invention to provide that the packing density of the raw material powder was between 10-40% inasmuch as between these amounts of density the optimum results will occur. As applied to claims 5 and 9 it is held that the recited methods of sealing the metal pipe are all old and hence obvious in view of the prior art. As applied to claim 6 and it is held that the temperatures taught in the prior art are substantially within those recited in this claim so as to make obvious the claimed invention

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Claims 1-3, 5, 6, 9 and 10 are further rejected under 35 U.S.C. 103(a) as being unpatentable over Makai et al (Pat No 5,462,920) hereinafter Makai et al.

Makai et al teach a method of preparing oxide superconducting wire wherein powder is placed into a metal casing which is degassed with a high vacuum and sealed. (Cf. Abstract) The casing is extruded and then heat treated. The casing is made by electron beam welding (Cf. Col 2) and the hydrostatic extrusion is carried out with a temperature not more than 600 degrees Celsius. It would have been obvious to provide a packing density of the raw material is between 10-40% if in fact Makai et al do not expressly teach this limitation for the same reason as given *supra* i.e. obtain optimum results. As applied to claim 6 and it is held that the temperatures taught in the prior art are substantially within those recited in this claim so as to make obvious the claimed invention.

Claims 4, 7, 8 and 11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to C. J. Arbes whose telephone number is 571-272-4563. The examiner can normally be reached on M,, T, R and F from 8 to 6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, P. Vo, can be reached on 571-272-4690. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the

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you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

C. J. Arbes

Primary Examiner

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